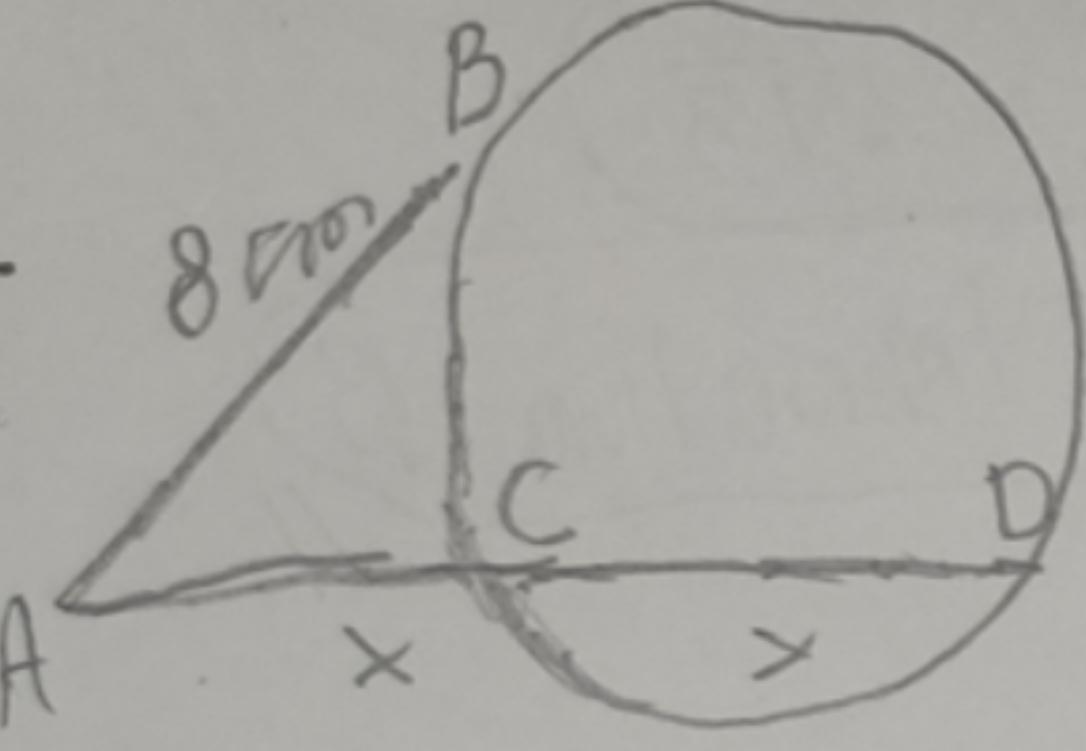


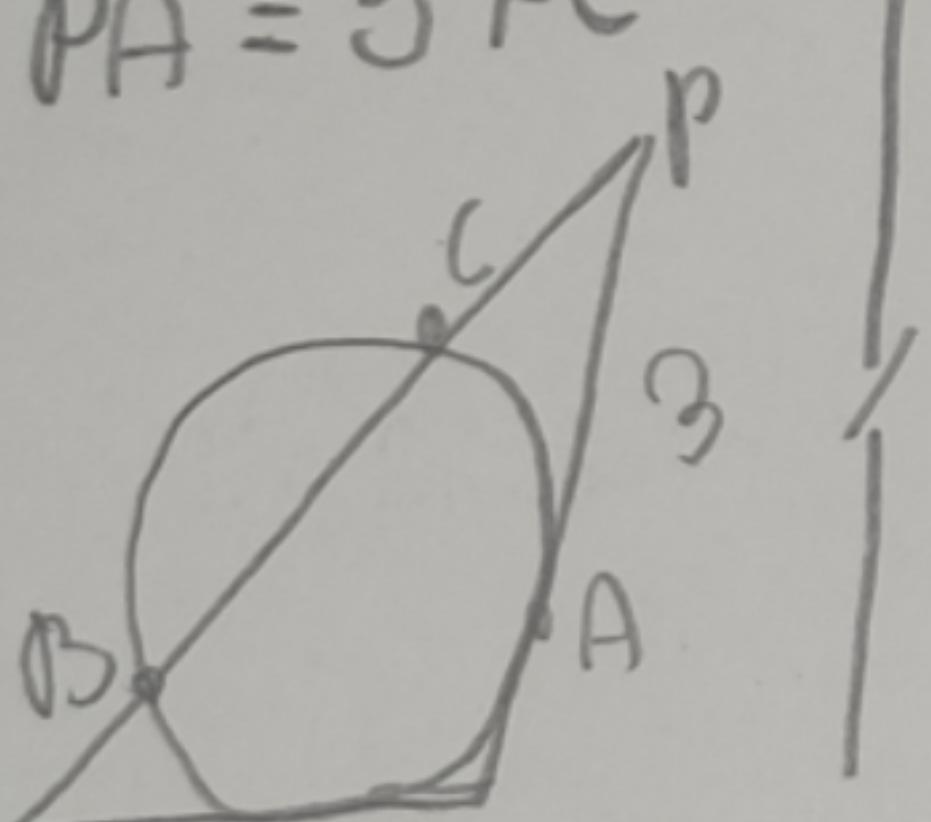
Lista de matemática.

321

1- 

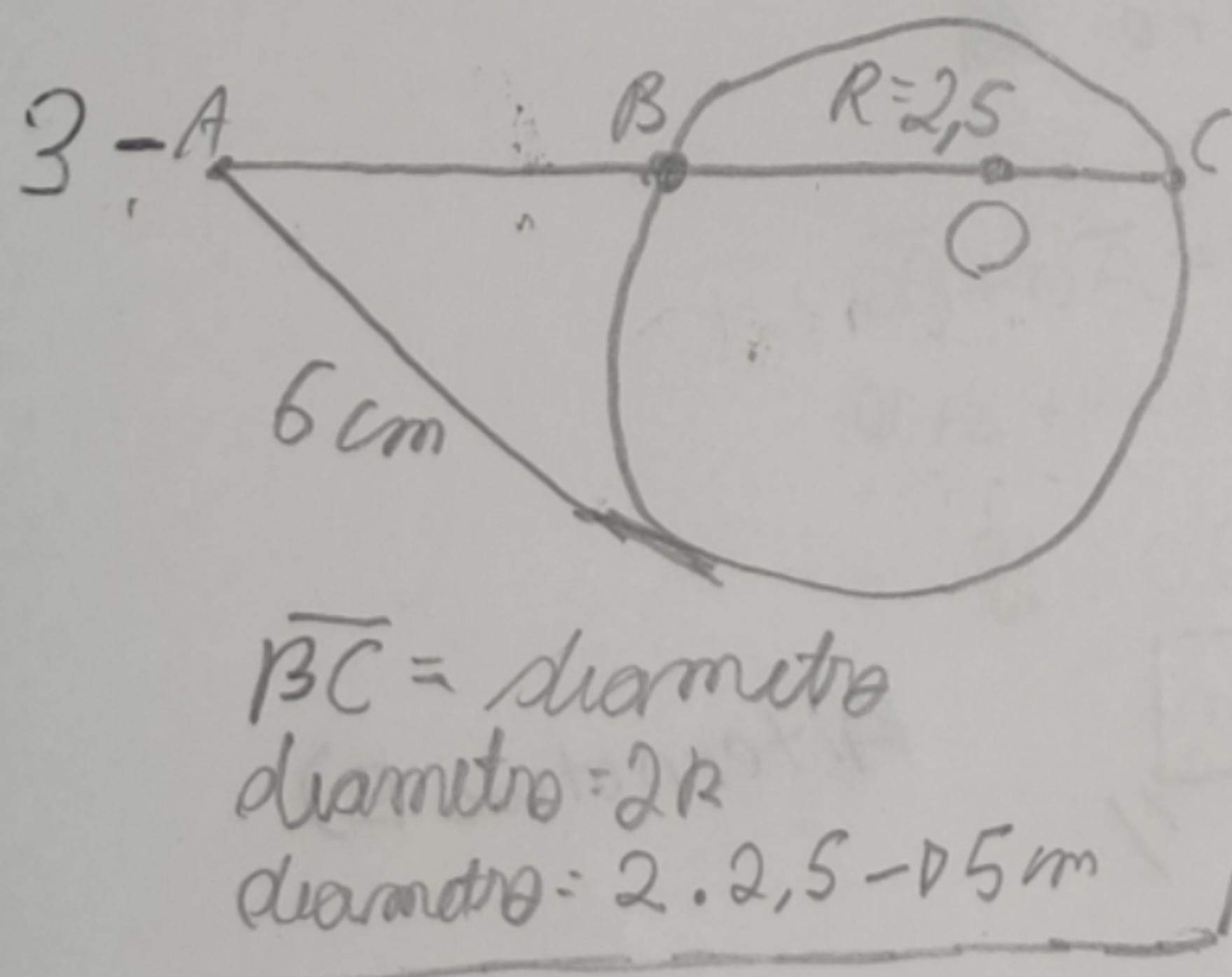
$$\left. \begin{array}{l} \bar{AC} \times \bar{AD} = (\bar{AB})^2 \\ x \cdot 2x = 8^2 \\ 2x^2 = 64 \\ x^2 = \frac{64}{2} \\ x = \sqrt{32} \end{array} \right\} \rightarrow x = \sqrt{2 \cdot 2 \cdot 2} \rightarrow x = 4\sqrt{2}$$

2- $\bar{PA} = 3 \bar{PC}$



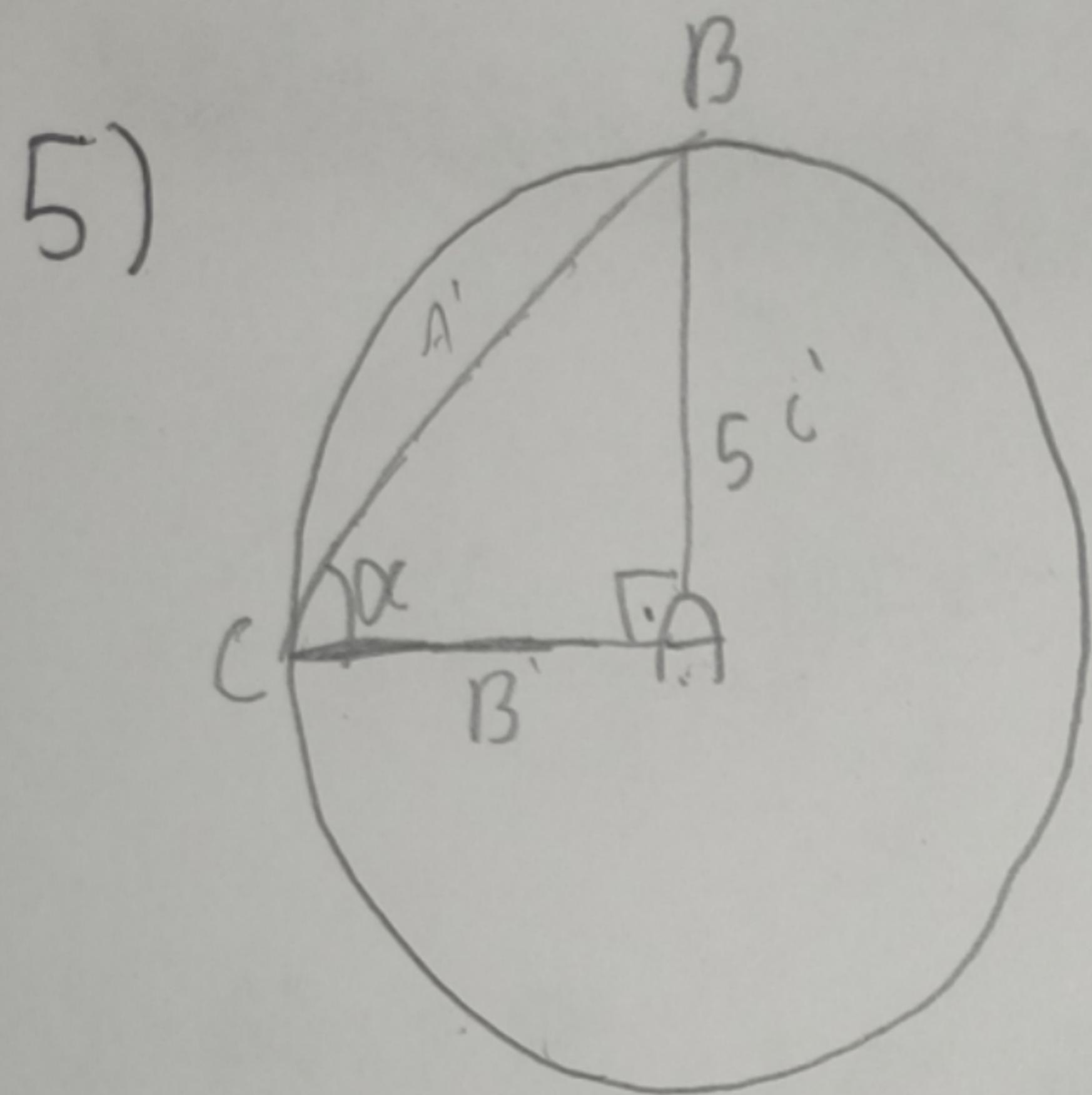
$$\left. \begin{array}{l} \bar{PC} \cdot \bar{PB} = (\bar{PA})^2 \\ \bar{PC} \cdot \bar{PB} = (3\bar{PC})^2 \\ \bar{PC} \cdot \bar{PB} = 9(\bar{PC})^2 \\ \bar{PB} = \frac{9 \cdot \bar{PC} \cdot \bar{PC}}{\bar{PC}} \end{array} \right\} R: Alt(B)_{||}$$

$$\bar{PB} = 9\bar{PC}$$

3- 

$$\left. \begin{array}{l} \bar{AB} \cdot \bar{AC} = (\bar{AT})^2 \\ x \cdot (x+5) = 6^2 \\ x^2 + 5x - 36 = 0 \\ \Delta = 5^2 - 4 \cdot 1 \cdot (-36) \\ \Delta = 25 + 144 \\ \Delta = 169 \end{array} \right\} \left. \begin{array}{l} x = \frac{-(5) \pm \sqrt{169}}{2 \cdot 1} \\ x = \frac{-5 \pm 13}{2} \\ \frac{-5-13}{2} \\ \frac{-18}{2} \\ -9 \end{array} \right\} \left. \begin{array}{l} \frac{-5+13}{2} \\ \frac{8}{2} \\ 4 \end{array} \right\}$$

$R: 4 \text{ cm}$
AH. (E)



$$AB = 10, BC = 6$$

$$10^2 = 6^2 + AC^2$$

$$100 = 36 + AC^2$$

$$64 = AC^2$$

$$AC = \sqrt{64} \rightarrow 8$$

$$\frac{B \cdot H}{2} \rightarrow \frac{8 \cdot 6}{2} \rightarrow \frac{48}{2} \rightarrow 24 \text{ cm,}$$

R: A.

6) raus \rightarrow Inhalt $\rightarrow 4 \text{ cm}^2$

$$A_{\square} = \frac{L^2 \sqrt{3}}{4} \rightarrow \frac{4^2 \sqrt{3}}{4} \rightarrow \frac{16 \sqrt{3}}{4} \rightarrow \cancel{\frac{16 \sqrt{3}}{4}} \rightarrow 4 \sqrt{3}^2 = 4 \sqrt{9} \\ 4 \cdot 3 \rightarrow 48 \text{ cm,}$$